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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.nspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
09/676,142	09/29/2000	John A. Higgins	00SC048US7	2762	
7.	590 01/16/2003				
Jaye G. Heybl			EXAMINER		
KOPPEL & JA Suite 107		LEE, BENNY T			
555 St. Charles Drive Thousand Oaks, CA 91360			ART UNIT	PAPER NUMBER	
Thousand Oaks	s, CA 71300		2817		
			DATE MAIL ED: 01/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

676142



UNITED STATES _EPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE		FIRST NAME	D APPLICANT	. AT	T RNEY DOCKET NO.	
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			•		ARTUNIT	PAPER NUMBER	
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•			•		DATE MAILED:		

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

<u>.</u> _		application has been examined Responsive to communication filed on 170-2 2602 This	action is made final.
□ ፣	his ap	application has been examined Responsive to communication filed on 11 11 11 11 11 11 11 11 11 11 11 11 11	action is made intal,
A sho Failu	ortened re, to r	red statutory period for response to this action is set to expire (1000 month(s),	of this letter.
Part I	8	ME FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION: Notice of References Cited by Examiner, PTO-892. Notice of Art Cited by Applicant, PTO-1449 Information on How to Effect Drawing Changes, PTO-1474 Notice of informal Patent Application on How to Effect Drawing Changes, PTO-1474 Notice of informal Patent Application on How to Effect Drawing Changes, PTO-1474	
Part I	ı .	SUMMARY OF ACTION	•
1.	A	Colains 1-31 (renumbered) are p	ending in the application.
		Of the above, claims 8-30 are w	rithdrawn from consideration.
2.		•	been cancelled.
3.	ب ن.	.	llowed.
 ۵.	/ /	Claims 1-7 31 (cenual a) are re	ejected.
5.		T Ctaims are o	bjected to.
6.		1 Claims - 3 (Nem. Asr.) are subject to restrict	on or election requirement.
• •	$\cdot \mathcal{F}$		uch time se allowable subject
7.		This application has been filed with informal drawings which are acceptable for examination purposes until s matter is indicated.	
8.		Allowable subject matter having been indicated, formal drawings are required in response to this Office action	
9 .		The corrected or substitute drawings have been received on These drawings are not acceptable (see explanation).	. acceptable;
10.		The proposed drawing correction and/or the proposed additional or substitute sheet(s) of drawings, thas (have) been approved by the examiner. disapproved by the examiner (see explanation).	filed on
11.	P	The proposed drawing correction, filed 17 65 2000, has been approved. disapproved the Patent and Trademark Office no longer makes drawing changes. It is now applicant's responsibility to e corrected. Corrections MUST be effected in accordance with the instructions set forth on the attached lette EFFECT DRAWING CHANGES", PTO-1474.	uznie mar me diamings ale
12		Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has been rec	eived not been received
		been filed in parent application, serial no; filed on	ha marite is closed in
13.		Since this application appears to be in condition for allowance except for formal matters, prosecution as to t accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	ne ments is cioseo in
14		Other	
		-	

EXAMINER'S ACTION

PTOL-326 (Rov. 7 - 82)

Art Unit: 2817

Claims 8-30 remain withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 8.

The disclosure is objected to because of the following informalities: Page 3, line 32, note that "as" should be rewritten as --a for clarity of description. Page 9, line 5, note that --Ev should follow "signals" for clarity of description. Page 10, line 22, note that "patches 18" should properly be --strips 18-- for consistency of description. Page 12, line 10, note that --(e.g. insulating Ga As)-- should follow "dielectric" for consistency of description; line 16, likewise, -- inductance-- should precede "vias"; line 22, finally note that --(i.e. variable capacitance)-- should follow "varactor". Page 16, line 26: note that "chip(s) 106" should correctly be --chip(s) 108--. Appropriate correction is required.

The drawings are objected to because of the following: In Fig. 5, reference label --48a-needs to be provided. A proposed drawing correction or corrected drawings are required in reply
to the Office action to avoid abandonment of the application. The objection to the drawings will
not be held in abeyance.

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

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Misnumbered claim 8 has been renumbered claim 31.

Claims 1-7, 31 (renumbered) are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, note that the positive recitation of "altering" of the "surface impedance" appears to be inconsistent with the earlier non-positive recitation of the "surface impedance" being "alterable". Clarification is needed.

Claim 1 is found objectionable since in line 3, note that "it" should be rephrased to identify the intended feature, and in the third paragraph, third line, "at least on pair" appears that it should correctly be --at least one pair--.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1—8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by the Kanack.

The Kanack reference in Figs. 25(a) & 25(b), disclose a cross-sectional view of a waveguide having oriented high impedance walls (i.e. on all four walls) which present a high impedance to signals propagating within the waveguide which inherently have an E field oriented perpendicular to the wall structure. Moreover, note that the wall structures predominantly present

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a capacitive impedance to the signals, and the wall structures can be selectively varied or tuned (see col 4, ls 51-59) and thus can inherently effect phase variations within the waveguide.

Applicant's arguments filed 17 October 2002 have been fully considered but they are not persuasive.

Regarding the remaining informalities noted above, applicants' have asserted that making the requested changes would have been duplicative. Contrary to applicants' assertions, the requested insertions merely make the specification description consistent with the labeling in the corresponding drawing figures.

Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Claims 4-7, 31 (renumbered) would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benny Lee whose telephone number is (703) 308 4902.

BENNY T. LEE PRIMARY EXAMINER ART UNIT 2817

B. Lee

January 10, 2003